09-01-04

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/868,693
Filing Date	October 10, 2001
First Named Inventor	Bertrand
Group Art Unit	2121
Examiner Name	Hirl

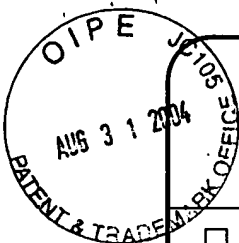| Total Number of Pages in This Submission		Attorney Docket Number	05222.00149

ENCLOSURES *(check all that apply)*

☒ Fee Transmittal Form

   ☐ Fee Attached

☐ Amendment / Response

   ☐ After Final

   ☐ Affidavits/declaration(s)

☐ Extension of Time Request

☐ Express Abandonment Request

☒ Supplemental Information Disclosure Statement

☐ Certified Copy of Priority Document(s)

☐ Response to Missing Parts/ Incomplete Application

   ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

☐ Assignment Papers *(for an Application)*

☐ Drawing(s)

☐ Licensing-related Papers

☐ Petition

☐ Petition to Convert to a Provisional Application

☐ Power of Attorney, Revocation Change of Correspondence Address

☐ Terminal Disclaimer

☐ Request for Refund

☐ CD, Number of CD(s)

☐ After Allowance Communication to Group

☐ Appeal Communication to Board of Appeals and Interferences

☐ Appeal Communication to Group *(Appeal Notice, Brief, Reply Brief)*

☐ Proprietary Information

☐ Status Letter

☒ Other Enclosure(s) *(please identify below):*

Supplemental Form PTO/SB08a
93 References
Certificate of Express Mail
Return Receipt Requested

Remarks	

The Commissioner is authorized to charge any fees in connection with this correspondence to Deposit Account No. 19-0733. A duplicate of this sheet is enclosed.

Express Mail No. EV 306401190 US

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Kenneth F. Smolik Banner & Witcoff, Ltd.
Signature	*Kenneth F Smolik*
Date	August 31, 2004

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FEE TRANSMITTAL
for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

		Complete If Known	
Application Number	09/868,693
Filing Date	October 10, 2001
First Named Inventor	Bertrand
Examiner Name	Hirl
Art Unit	2121

TOTAL AMOUNT OF PAYMENT	($) 180	Attorney Docket No.	05222.00149

METHOD OF PAYMENT *(check all that apply)*

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number	19-0733
Deposit Account Name	Banner & Witcoff, LTD.

The Director is authorized to: *(check all that apply)*
☒ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, **except for the filing fee**
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FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity			
Fee Code	Fee ($)	Fee Code	Fee ($)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filling fee	
				SUBTOTAL (1)	($) 0

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims	Fee from below	Fee Paid
Total Claims	- ** =	0	X	= 0
Independent Claims	- ** =	0	X	= 0
Multiple Dependent			X	= 0

Large Entity		Small Entity			
Fee Code	Fee ($)	Fee Code	Fee ($)	Fee Description	
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent claim, if not paid	
1204	86	2204	43	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	
				SUBTOTAL (2)	($) 0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity			
Fee Code	Fee ($)	Fee Code	Fee ($)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive – unavoidable	
1453	1,330	2453	665	Petition to revive – unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid SUBTOTAL (3) ($) 180

SUBMITTED BY

Complete *(if applicable)*

Name (Print/Type)	Kenneth F. Smolik	Registration No. (Attorney/Agent)	44,344	Telephone	312-463-5000
Signature	*Kenneth F. Smolik*			Date	August 31, 2004

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Attorney Docket No. 05222.00149)

In re U.S. Patent Application of Nichols	)	
	)	
Application No. 09/868,693	)	Group Art Unit: 2121
	)	
Filed: October 10, 2001	)	Examiner: Hirl
	)	
For: A GOAL BASED SYSTEM UTILIZING A	)	
SPREADSHEET ARCHITECTURE	)	

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§1.97 and 1.98, the Applicant wishes to make the following references of record in the above-identified application. This Supplemental Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 CFR §1.56. Copies of the references cited below are enclosed. The references are also listed on the enclosed and completed Form PTO/SB/08A.

The Commissioner is authorized to charge or credit any fees associated with this paper to Deposit Account No. 19-0733.

Under 37 CFR §1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed as a representation that a search has been made.

Under 37 CFR §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to be an admission that the cited references are, or are considered to be, material to patentability as defined in 37 CFR §1.56(b).

The present patent application is related to the following co-pending patent applications:

09/502,348	09/218,977	09/218,726	09/868,664	09/868,713
09/219,055	09/218,749	09/218,995	09/868,669	09/868,667
09/219,080	09/219,479	09/218,945	09/868,682	10/008,265
09/305,719	09/219,524	09/221,608	09/868,698	10/018,062
09/219,480	09/219,477	09/629,367	09/868,694	09/934,924
09/218,968	09/219,481	09/502,349	09/868,678	09/935,219
09/221,217	09/219,088	09/219,478	09/868,686	09/935,348
09/218,741	09/219,201	09/887,188	09/868,689	
09/502,142	09/219,079	10/007,824	09/868,752	
09/219,086	09/218,906	09/887,824	09/868,708	
09/221,138	09/218,976	09/887,947	09/868,743	

Foreign References

1. EP 0 689 132 A2, published 12/27/95

2. EP 0 710 942 A2, published 05/08/96

3. EP 0 798 655 A2, published 10/01/97

4. WO 00/04478, published 01/27/00

5. WO 97/44766, published 11/27/97

6. WO 98/03953, published 01/29/98

7. WO 98/25251, published 06/11/98

8. WO 98/32109, published 07/23/98

Other Prior Art -- Non Patent Literature Documents

9. W. Doube, "*A Browser-Based System to Support & Deliver DE,*" 1998 FIE Conference, Conference Proceedings, Vol. 1, pp. 479-484, Nov. 4-7, 1998

10. W. Regian and G.Pitts, "*A Fuzzy Logic-Based Intelligent Tutoring System (ITS),*" Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.

11. J. Reye, "*A Goal-Centered Architecture for Intelligent Tutoring Systems,*" Proc. of 7th World Conf. on Artificial Intelligence in Education, pp. 307-314, Aug. 1995

12. R. Schank and D. Edelson, "*A Role for AI in Education: Using Technology to Reshape Education*", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, , pp. 1-24, January 1990

13. A. Nowakowski, "*A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting,*" Educational Technology, pp. 3-8, Nov.-Dec. 1994

14. R. Chellappa, A. Barua and A. Whinston, "*An Electronic Infrastructure for a Virtual University,*" Communications of the ACM, Vol. 40, No. 9, pp. 56-58, Sep. 1997.

15. K. Itoh M.Itami, K. Ichihara, J. Matsushita, T. Nomizo, T. Shimomura and T. Takahashi, "*An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving,*" Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997

16. K. Nakabayashi, M. Maruama, Y. Koike, Y. Kato, H. Touhei and Y. Fukuhara, "*Architecture of an Intelligent Tutoring System on the WWW,*" Artificial Intelligence in Education, pp. 39-46, Dec. 1997

17. D. McArthur, "*Artificial Intelligence and Mathematics Education*" at http://www.rand.org/hot/mcarthur/Papers/aied.html, pp. 1-8, Jan. 2001

18. T. Murray, "*Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art*" at http://www.cs.umass/edu/~tmurray/papers/ATSummary/AuthTools.html, pp. 1-35, July 2001

19. "*Automate Your Business Plan Software*" at www.business-plan.com/automate.html, pp. 1-4, July 2001

20. A. Gonalez and L. Ingraham, "*Automated Exercise Progression in Simulation-Based Training,*" IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24, No. 6, pp. 863-74, June 1994

21. A. Muntjewerff, "*Automated Training of Legal Reasoning*" at http://www.bileta.ac.uk/94papers/muntjew.html, pp. 1-7, July 2001, 9th BILETA Conference April , 1994

22. "*Brainmaker*" at htt://people.becon.org/~echoscan/28-04.htm, July 2001

23. *Brainmaker Neural Network Application Examples* at http://ww.calsci.com/Applications.html, January 2001

24. C. Robinson, E. Arias and H. Eden, "*Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface,*" Artificial Intelligence in Education, pp. 556-58, Dec. 1997

25. C. Shreiner, "*CAPTOR a Model for Delivering Web-Based Intelligent Tutoring System Technology*", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5

26. S. Prabhu, "*Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach,*" Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14., November 1995

27. J. Montgomery, R. Campbell and C. Moffett, "*Conducting and Supporting a Goal-Based Scenario Learning Environment*," Educational Technology, pp. 15-20, 994

28. A. Zeller and D. Lutkehaus, "*DDD--A Free Graphical Front-End for UNIX Debuggers*," ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27, Jan. 1996,

29. Vanguard Software Corporation "*Decision Pro3.0*" at www.vanguardsw.com/, Jan. 2001

30. B. Cheok and A. Nee, "*Developing a Design System into an Intelligent Tutoring System*," Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997

31. T. Nogami, Y. Yokoi, I. Yanagisawa and S. Mitui, "*Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning*," IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-117, Jan. 1994

32. J. Gonzalez, J. Lopez, F. Bustio, P., Corcuera and E. Mora, "*Development of an Integrated Simulator and Real Time Plant Information System*," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium, pp. 543-549, September 1996.

33. P. Brusilovsky, S. Ritter and E. Schwarz, "*Distributed Intelligent Tutoring on the Web*," Artificial Intelligence in Education, pp. 482-89, Dec. 1997

34. R. Schank and M. Korcuska, "*Eight Goal-Based Scenario Tools*", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, pp. 1-37, January 1996

35. J. Siemer and M. Angelides, "*Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment*," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994

36. *Engines for Education*" http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html; July 2001.

37. S. Taylor and J. Siemer, "*Enhancing Simulation Education with Intelligent Tutoring Systems*," Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996

38. J. Siemer and M. Angelides, "*Evaluating Intelligent Tutoring with Gaming Simulations*," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995

39. A. Mitrovic and B. Martin, "*Evaluating the effectiveness of feedback in SQL-tutor*", IEEE, proc. Int. workshop IWALT, pp 143-144, 2000

40. D. Foster, "*FRA: Teaching Financial Accounting with a Goal-Based Scenario*," Intelligent Systems in Accounting, Finance and Management, Vol. 4, pp. 173-189, September 1995

41. N. Livergood, "*From Computer-Assisted Instruction to Intelligent Tutoring Systems*," J. Artificial Intelligence in Education, V. 2(3), pp. 39-50, Dec. 1991

42. R. Shank, "*Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank*," Educational Technology, pp. 27-29, Nov.-Dec. 1994
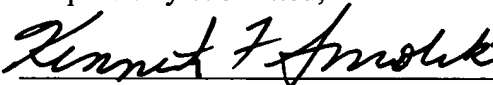
43. A. Collins, "*Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios*," Educational Technology, pp. 30-32, Nov.-Dec. 1994

44. R. Shank, "*Goal-Based Scenarios*", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, pp. 1-30, December 1992,

45. J. Rickel, "*Intelligent Computer-Aided Instruction: A Survey Organized Around System Components*," IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57 - pp. 1-32, Jan. 1989

46. M. Yazdani, "*Intelligent Tutoring Systems: An Overview*" Experts Systems, Vol. 3, No. 3, pp. 154-162, July 1986

47. "*Interactive Multimedia Instructs the Individual,*" Occupational Health & Safety Vol. 63, No. 10, pp. 144-145, Oct. 1994

48. J. Carroll and J. McKendree, "*Interface Design Issue for Advice Giving Expert Systems*", Comm. Of theACM, vol 30, No. 1, pp14-31, January 1987

49. "*KBLPS Overview*" at www.cgi.com/CGIWEB/KBLPS/overindex4.html, August 1999

50. "*Kiplinger TaxCut Press Releases*" at http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html, July 2001

51. G. Cole, "*Learning with Computers,*", Accountancy Vol. 113, No. 1209, pp. 60-64, May 1994

52. J. Keys, R. Fulmer and S. Stumpf "*Microworlds and Simuworlds: Practice Fields for the Learning Organization,*" Organizational Dynamics Vol. 24, No. 4, pp. 36-49, Spring 1996

53. "*MUSE Patents*" OCCAM Research Corporation, at www.muser.com/html/patents.html, January 2001

54. "*News for ESAP*" at www.hops.wharton.upenn.edu/~esap/news.html, August 1999

55. M. Cohn, "*No More Boring CPE,*" Accounting Technology, pp. 27-35, July 1997

56. K. Lai, T. Malon, K. Yu, "*Object Lens: A 'Spreadsheet' for Cooperative Work*", ACM Transactions on Information Systems, Vol. 6, No. 4, pp. 332-353, Oct. 1988

57. J. Brown, R. Burton and J. DeKleer, "*Pedagogical, Natural Language and Knowledge Engineering Techniques in SOPHIE I, II, and III,*" Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982

58. J. Caird, "*Persistent Issues in the Application of Virtual Environment Systems to Training,*" Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32, August 1996

59. D. Bill, "*Popular Theory Supporting the Use of Computer Simulation for Experiential Learning,*" http://www.centurionsys.com/rtcl57.html, pp. 1-5, July 2001

60. C. Cleary and R. Bareiss, *"Practical Methods for Automatically Generating Typed Links"*, The Institute for Learning Sciences, Northwestern University, ACM Hypertext, pp 31-41, 1996

61. *"Projects: FinPlan System"*, Russian Research Institute of Artificial Intelligence, at http://www.rriai.org.ru/FinPlan, July 2001

62. R. Azevedo, S. Lajoie, M. Desaulniers, D. Fleiszer and P. Bret, *"RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor,"* Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997

63. T. Cooper and N. Wogrin, *"Rule-Based Programming with OPS5"* Morgan Kaufmann Publishers, at www.mkp.com/books_catalog/O-934613-51-6.asp, August 1999

64. R. Min, *"Simulation Technology and Parallelism in Learning Environments"* at http://www.to.utwente.nl/prj/min/Book/chapter1.htm, pp. 1-26, July 2001

65. J. Shi, T. Smith, J. Granieri and N. Badler, *"Smart Avatars in JackMOO,"* Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-163, 1999

66. V. Shute, *"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation,"* Proc. of 7th World Conf. On Artificial Intelligence in Education, pp. 123-130, Aug. 1995

67. C. Hafner and V. Wise, *"Smartlaw: Adapting Classic Expert System Techniques for the Legal Research Domain"*, ACM pp 133-141, 1993

68. *"Socialized Collaborative Learning in Multimedia Virtual Worlds"* National University of Singapore, School Computing, at http://www.comp.nus.edu.sg/labs/learning/lels/vrml.html, pp. 1-4, July 2001

69. C. Whittington and L. Campbell, *"Task-Oriented Learning on the Web"*; Innovations in Education and Training International, Vol. 36, No. 1, pp. 26-33, Feb. 1999

70. D. Foster, *"Teaching Real-World Analysis Skills for Goal-Based Scenario,"* The Institute for the Learning Sciences, Northwestern University, pp. 68-74, July 2001

71. M. Papagni, V. Cirillo and A. Micarelli, *"Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication,"* Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-118, Dec. 1997

72. T. Herron, *"Teaching with the internet"* 1998, The Internet and Higher Education, pp 217-222, 1998

73. D. Suthers, *"Technical Report: Computer Aided Education and Training Initiative"* at http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html, pp. 1-51, January 1998

74. Workflow Template - Developing a WFT Workflow System, *"Simulating the Running of the WFT Workflow System"*, Template Software Business Simulator, Chapter 8, pp. 1-23, 1998

75.   R. Schank, A. Fano, M. Jona and B. Bell, *"The Design of Goal-Based Scenarios"*, Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, pp. 1-58, March 1993

76.   J. Anderson and B. Reiser, *"The Lisp Tutor,"* Byte, pp. 159-75, April 1985

77.   D. McArthur, M. Lewis and M. Bishay, *"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects"* at http://www.rand.org/education/mcarthur/Papers/role.html, pp. 1-42, July 2001

78.   W. van Joolingen, S. King and T. de Jong, *"The SimQuest Authoring System for Simulation-Based Discovery Learning,"* Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997

79.   A. Kumar, R. Pakala, R. Ragade and J. Wong, *"The Virtual Learning Environment System,"* 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998

80.   M. McGee, *"Train with Less Pain,"* at www.Informationweek.com, pp. 150 and 154 October 1997

81.   *"TurboTax Deluxe Product Information"* at http://www.intuit.com/turbotax/prodinfo/ttdlx.html, January 2001

82.   J. Manzoni and A. Angehrn, *"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach,"* Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140, Winter 1997/1998

83.   *"User-Sensitive Multimedia Presentation System,"* IBM Technical Discslosue Bulletin, Vol. 39, No. 3, pp. 93-94 March 1996

84.   R. Kemp and S. Smith, *"Using Planning Techniques to Provide Feedback in Interactive Learning Environments,"* Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-703, November 1994

85.   R. Kemp, *"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor,"* Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-465, December 1997

86.   R. Schank, *"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce,"* Personnel Psychology Vol. 51, No. 3, pp. 767-771, Autumn 1998

87.   J. Breuker, *"What are Intelligent Coaching Systems and Why are they (in)evitable?"* IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998

88.   *"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games,"* Computergram Int'l, June 17, 1996

89. E.Tam, P. Allard, M. Faraj, M. Kaddoura, A. Mourad, H. Liu, A. Malowany, R. Marceau, L. Granger and J. Gagnon, "*WITS: A Reusable Architecture for a VR-Based ITS*" at http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html, pp. 1-5, July 2001

90. *Computer Dictionary*, 3rd Edition, pp. 264, 276, 383, 446, 462, 507, 1997

91. L. Grensing-Prphal, "*Flexible Learning*", Credit Union Management Vol. 21, No. 2, pp. 32-33 and 38, Feb. 1998,

92. J. Wilson and D. Mosher, "*The Prototype of the Virtual Classroom*," Journal of Instruction Delivery Systems, Summer 1994, at http://www.educause.edu/nlii/articles/moshwils.html, pp. 1-9, July 2001

93. T. Burns, "*Multimedia Training... 'Get Lemonade, Not a Lemon!'"* Journal for Quality and Participation, Vol. 20, No. 3, pp. 22-26, June 1997,

94. A. Seagren and B. Watwood, "*The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story*," 5th Annual International Conf. for Community & Technical College Chairs, Deans and Other Organizational Leaders, pp 512-517, February 1996

95. J. Martin, "*Principles of Object-Oriented Analysis and Design*", Chapter 8, pp. 103-110, 1993

Respectfully submitted,

Dated: August 31, 2004

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Substitute for form 1449A/PTO .

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

	Complete if Known	
Application Number	09/868,693	
Filing Date	October 10, 2001	
First Named Inventor	Bertrand	
Art Unit	2121	
Examiner Name	Hirl	

Sheet	1	of	4	Attorney Docket Number	05222.00149

FOREIGN PATENT DOCUMENTS

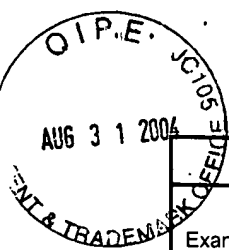| Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	1	EP 0 689 132 A2	12/27/95	Laffra		
	2	EP 0 710 942 A2	05/08/96	Siefert		
	3	EP 0 798 655 A2	10/01/97	Jervis, et al.		
	4	WO 00/04478	01/27/00	Jonsson		
	5	WO 98/03953	01/29/98	Simmons		
	6	WO 98/25251	06/11/98	Ho		
	7	WO 98/32109	07/23/98	De Lange		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	8	W. Doube, "A Browser-Based System to Support & Deliver DE," 1998 FIE Conference, Conference Proceedings, Vol. 1, pp. 479-484, Nov. 4-7, 1998	
	9	W. Regian and G.Pitts, "A Fuzzy Logic-Based Intelligent Tutoring System (ITS)," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
	10	J. Reye, "A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. of 7th World Conf. on Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
	11	R. Schank and D. Edelson, "A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, , pp. 1-24, January 1990	
	12	A. Nowakowski, "A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, pp. 3-8, Nov.-Dec. 1994	
	13	R. Chellappa, A. Barua and A. Whinston, "An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, pp. 56-58, Sep. 1997.	
	14	K. Itoh M.Itami, K. Ichihara, J. Matsushita, T. Nomizo, T. Shimomura and T. Takahashi, "An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997	
	15	K. Nakabayashi, M. Maruama, Y. Koike, Y. Kato, H. Touhei and Y. Fukuhara, "Architecture of an Intelligent Tutoring System on the WWW," Artificial Intelligence in Education, pp. 39-46, Dec. 1997	
	16	D. McArthur, "Artificial Intelligence and Mathematics Education" at http://www.rand.org/hot/mcarthur/Papers/aied.html, pp. 1-8, Jan. 2001	
	17	T. Murray, "Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at http://www.cs.umass/edu/~tmurray/papers/ATSummary/AuthTools.html, pp. 1-35, July 2001	
	18	"Automate Your Business Plan Software" at www.business-plan.com/automate.html, pp. 1-4, July 2001	
	19	A. Gonalez and L. Ingraham, "Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24, No. 6, pp. 863-74, June 1994	
	20	A. Muntjewerff, "Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html, pp. 1-7, July 2001, 9th BILETA Conference April , 1994	
	21	"Brainmaker" at htt://people.becon.org/~echoscan/28-04.htm, July 2001	

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PATENT & TRADEMARK

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	22	*Brainmaker Neural Network Application Examples* at http://ww.calsci.com/Applications.html, January 2001	
	23	C. Robinson, E. Arias and H. Eden, "*Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface,*" Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
	24	C. Shreiner, "*CAPTOR a Model for Delivering Web-Based Intelligent Tutoring System Technology*", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	
	25	S. Prabhu, "*Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach,*" Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14., November 1995	
	26	J. Montgomery, R. Campbell and C. Moffett, "*Conducting and Supporting a Goal-Based Scenario Learning Environment,*" Educational Technology, pp. 15-20, 994	
	27	A. Zeller and D. Lutkehaus, "*DDD--A Free Graphical Front-End for UNIX Debuggers,*" ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27, Jan. 1996,	
	28	Vanguard Software Corporation "*Decision Pro3.0*" at www.vanguardsw.com/, Jan. 2001	
	29	B. Cheok and A. Nee, "*Developing a Design System into an Intelligent Tutoring System,*" Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997	
	30	T. Nogami, Y. Yokoi, I. Yanagisawa and S. Mitui, "*Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning,*" IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-117, Jan. 1994	
	31	J. Gonzalez, J. Lopez, F. Bustio, P., Corcuera and E. Mora, "*Development of an Integrated Simulator and Real Time Plant Information System,*" Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium, pp. 543-549, September 1996.	
	32	P. Brusilovsky, S. Ritter and E. Schwarz, "*Distributed Intelligent Tutoring on the Web,*" Artificial Intelligence in Education, pp. 482-89, Dec. 1997	
	33	R. Schank and M. Korcuska, "*Eight Goal-Based Scenario Tools*", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, pp. 1-37, January 1996	
	34	J. Siemer and M. Angelides, "*Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment,*" Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
	35	*Engines for Education*" http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html; July 2001.	
	36	S. Taylor and J. Siemer, "*Enhancing Simulation Education with Intelligent Tutoring Systems,*" Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996	
	37	J. Siemer and M. Angelides, "*Evaluating Intelligent Tutoring with Gaming Simulations,*" Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995	
	38	A. Mitrovic and B. Martin, "*Evaluating the effectiveness of feedback in SQL-tutor*", IEEE, proc. Int. workshop IWALT, pp 143-144, 2000	
	39	D. Foster, "*FRA: Teaching Financial Accounting with a Goal-Based Scenario,*" Intelligent Systems in Accounting, Finance and Management, Vol. 4, pp. 173-189, September 1995	
	40	N. Livergood, "*From Computer-Assisted Instruction to Intelligent Tutoring Systems,*" J. Artificial Intelligence in Education, V. 2(3), pp. 39-50, Dec. 1991	
	41	R. Shank, "*Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank,*" Educational Technology, pp. 27-29, Nov.-Dec. 1994	
	42	A. Collins, "*Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios,*" Educational Technology, pp. 30-32, Nov.-Dec. 1994	
	43	R. Shank, "*Goal-Based Scenarios*", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, pp. 1-30, December 1992,	
	44	J. Rickel, "*Intelligent Computer-Aided Instruction: A Survey Organized Around System Components,*" IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57 - pp. 1-32, Jan. 1989	
	45	M. Yazdani, "*Intelligent Tutoring Systems: An Overview*" Experts Systems, Vol. 3, No. 3, pp. 154-162, July 1986	
	46	"*Interactive Multimedia Instructs the Individual,*" Occupational Health & Safety Vol. 63, No. 10, pp. 144-145, Oct. 1994	
	47	J. Carroll and J. McKendree, "*Interface Design Issue for Advice Giving Expert Systems*", Comm. Of theACM, vol 30, No. 1, pp14-31, January 1987	
	48	"*KBLPS Overview*" at www.cgi.com/CGIWEB/KBLPS/overindex4.html, August 1999	
	49	"*Kiplinger TaxCut Press Releases*" at http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html, July 2001	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
	50	G. Cole, "*Learning with Computers,*", Accountancy Vol. 113, No. 1209, pp. 60-64, May 1994	
	51	J. Keys, R. Fulmer and S. Stumpf "*Microworlds and Simuworlds: Practice Fields for the Learning Organization,*" Organizational Dynamics Vol. 24, No. 4, pp. 36-49, Spring 1996	
	52	"*MUSE Patents*" OCCAM Research Corporation, at www.muser.com/html/patents.html, January 2001	
	53	"*News for ESAP*" at www.hops.wharton.upenn.edu/~esap/news.html, August 1999	
	54	M. Cohn, "*No More Boring CPE,*" Accounting Technology, pp. 27-35, July 1997	
	55	K. Lai, T. Malon, K. Yu, "*Object Lens: A 'Spreadsheet' for Cooperative Work*", ACM Transactions on Information Systems, Vol. 6, No. 4, pp. 332-353, Oct. 1988	
	56	J. Brown, R. Burton and J. DeKleer, "*Pedagogical, Natural Language and Knowledge Engineering Techniques in SOPHIE I, II, and III,*" Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982	
	57	J. Caird, "*Persistent Issues in the Application of Virtual Environment Systems to Training,*" Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32, August 1996	
	58	D. Bill, "*Popular Theory Supporting the Use of Computer Simulation for Experiential Learning,*" http://www.centurionsys.com/rtcl57.html, pp. 1-5, July 2001	
	59	C. Cleary and R. Bareiss, "*Practical Methods for Automatically Generating Typed Links*", The Institute for Learning Sciences, Northwestern University, ACM Hypertext, pp 31-41, 1996	
	60	"*Projects: FinPlan System*", Russian Research Institute of Artificial Intelligence, at http://www.rriai.org.ru/FinPlan, July 2001	
	61	R. Azevedo, S. Lajoie, M. Desaulniers, D. Fleiszer and P. Bret, "*RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor,*" Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997	
	62	T. Cooper and N. Wogrin, "*Rule-Based Programming with OPS5*" Morgan Kaufmann Publishers, at www.mkp.com/books_catalog/O-934613-51-6.asp, August 1999	
	63	R. Min, "*Simulation Technology and Parallelism in Learning Environments*" at http://www.to.utwente.nl/prj/min/Book/chapter1.htm, pp. 1-26, July 2001	
	64	J. Shi, T. Smith, J. Granieri and N. Badler, "*Smart Avatars in JackMOO,*" Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-163, 1999	
	65	V. Shute, "*SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation,*" Proc. of 7th World Conf. On Artificial Intelligence in Education, pp. 123-130, Aug. 1995	
	66	C. Hafner and V. Wise, "*Smartlaw: Adapting Classic Expert System Techniques for the Legal Research Domain*", ACM pp 133-141, 1993	
	67	"*Socialized Collaborative Learning in Multimedia Virtual Worlds*" National University of Singapore, School Computing, at http://www.comp.nus.edu.sg/labs/learning/lels/vrml.html, pp. 1-4, July 2001	
	68	C. Whittington and L. Campbell, "*Task-Oriented Learning on the Web*"; Innovations in Education and Training International, Vol. 36, No. 1, pp. 26-33, Feb. 1999	
	69	D. Foster, "*Teaching Real-World Analysis Skills for Goal-Based Scenario,*" The Institute for the Learning Sciences, Northwestern University, pp. 68-74, July 2001	
	70	M. Papagni, V. Cirillo and A. Micarelli, "*Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication,*" Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-118, Dec. 1997	
	71	T. Herron, "*Teaching with the internet*" 1998, The Internet and Higher Education, pp 217-222, 1998	
	72	D. Suthers, "*Technical Report: Computer Aided Education and Training Initiative*" at http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html, pp. 1-51, January 1998	
	73	Workflow Template - Developing a WFT Workflow System, "*Simulating the Running of the WFT Workflow System*", Template Software Business Simulator, Chapter 8, pp. 1-23, 1998	
	74	R. Schank, A. Fano, M. Jona and B. Bell, "*The Design of Goal-Based Scenarios*", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, pp. 1-58, March 1993	
	75	J. Anderson and B. Reiser, "*The Lisp Tutor,*" Byte, pp. 159-75, April 1985	
	76	D. McArthur, M. Lewis and M. Bishay, "*The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects*" at http://www.rand.org/education/mcarthur/Papers/role.html, pp. 1-42, July 2001	
	77	W. van Joolingen, S. King and T. de Jong, "*The SimQuest Authoring System for Simulation-Based Discovery Learning,*" Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	78	A. Kumar, R. Pakala, R. Ragade and J. Wong, "*The Virtual Learning Environment System*," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
	79	M. McGee, "*Train with Less Pain*," at www.Informationweek.com, pp. 150 and 154 October 1997	
	80	"*TurboTax Deluxe Product Information*" at http://www.intuit.com/turbotax/prodinfo/ttdlx.html, January 2001	
	81	J. Manzoni and A. Angehrn, "*Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach*," Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140, Winter 1997/1998	
	82	"*User-Sensitive Multimedia Presentation System*," IBM Technical Discslosue Bulletin, Vol. 39, No. 3, pp. 93-94 March 1996	
	83	R. Kemp and S. Smith, "*Using Planning Techniques to Provide Feedback in Interactive Learning Environments*," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-703, November 1994	
	84	R. Kemp, "*Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor*," Proc. of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-465, December 1997	
	85	R. Schank, "*Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce*," Personnel Psychology Vol. 51, No. 3, pp. 767-771, Autumn 1998	
	86	J. Breuker, "*What are Intelligent Coaching Systems and Why are they (in)evitable?*" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
	87	"*Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games*," Computergram Int'l, June 17, 1996	
	88	E.Tam, P. Allard, M. Faraj, M. Kaddoura, A. Mourad, H. Liu, A. Malowany, R. Marceau, L. Granger and J. Gagnon, "*WITS: A Reusable Architecture for a VR-Based ITS*" at http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html, pp. 1-5, July 2001	
	89	*Computer Dictionary*, 3rd Edition, pp. 264, 276, 383, 446, 462, 507, 1997	
	90	L. Grensing-Prphal, "*Flexible Learning*", Credit Union Management Vol. 21, No. 2, pp. 32-33 and 38, Feb. 1998,	
	91	J. Wilson and D. Mosher, "*The Prototype of the Virtual Classroom*," Journal of Instruction Delivery Systems, Summer 1994, at http://www.educause.edu/nlii/articles/moshwils.html, pp. 1-9, July 2001	
	92	T. Burns, "*Multimedia Training... 'Get Lemonade, Not a Lemon!'*" Journal for Quality and Participation, Vol. 20, No. 3, pp. 22-26, June 1997,	
	93	A. Seagren and B. Watwood, "*The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story*," 5th Annual International Conf. for Community & Technical College Chairs, Deans and Other Organizational Leaders, pp 512-517, February 1996	

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